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### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a diagram illustrating a Mobile IP network segment and associated environment.

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FIG. 1 is a diagram illustrating a Mobile IP network segment and associated

environment.

FIG. 2 is a diagram illustrating conventional Registration Request and Registration Reply packet formats having a Mobile-Home Authentication Extension.

FIG. 3 is a process flow diagram illustrating the process steps performed during authentication of a mobile node.

10 FIG. 4 is a diagram illustrating a conventional Security Association.

FIG. 5 is a block diagram illustrating a mobile IP network segment and associated environment without a centralized source of security keys.

FIG. 6 is a block diagram illustrating an exemplary system in which the present invention may be implemented.

15 FIG. 7 is a transaction flow diagram illustrating a general method of performing dynamic key generation in accordance with various embodiments of the invention.

FIG. 8 is a transaction flow diagram illustrating a specific method of performing dynamic key generation in accordance with various embodiments of the invention.

20 FIG. 9 is a process flow diagram illustrating a method of composing a registration request as illustrated at block 812 of FIG. 8.